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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/843,924		04/30/2001	Kazunori Sakurai	109182	9915	
25944	7590	08/30/2002				
OLIFF & B	ERRII	OGE, PLC	EXAMINER			
P.O. BOX 19			MENZ, DOUGLAS M			
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				ART UNIT	PAPER NUMBER	
				2824		
			DATE MAILED: 08/30/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Application No.	Applicant(s)					
		09/843,924	SAKURAI ET AL.					
Offic	e Action Summary	Examiner	Art Unit					
		Douglas M Menz	2824					
The MAILING DATE of this c mmunication appears on the cover sheet with the correspondence address Period f r Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6), MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1) Respon	sive to communication(s) filed on							
2a)☐ This act	ion is FINAL . 2b)⊠ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Cla								
\ -	1-32 is/are pending in the application							
•	e above claim(s) is/are withdra	wn from consideration.						
,—	is/are allowed.							
,	is/are rejected.							
7)∐ Claim(s)	is/are objected to.	-1						
,—	1-32 are subject to restriction and/or	election requirement.						
Application Papers								
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
i '—	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35	U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
1.□ Ce	ertified copies of the priority documen	ts have been received.						
2.□ Ce	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowled	dgment is made of a claim for domest	tic priority under 35 U.S.C. § 119	(e) (to a provisiona	l application).				
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of Refere 2) Notice of Draftsp 3) Information Disc	nces Cited (PTO-892) person's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No I Patent Application (PT					
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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-27 and 31-32, drawn to a method for forming a bump, classified in class 438, subclass 613.
- Claims 28-30, drawn to a semiconductor device, classified in class 257, subclass 737.

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. For instance the insulating film does not have to be thicker at an end of the pad than at a center of the pad as the method claims would imply.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention: Claims 28, 29 and 30 each pertain to a distinct species of the claimed invention. Claim 28 contains a bump formed in the region of the pads not

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covered with the insulating film so as to be spaced from the insulating film. Claim 29 contains a bump formed partially on the insulating film and Claim 30 contains pillar shaped bumps.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic claim.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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A telephone call was made to James Oliff on 8/29/02 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M Menz whose telephone number is 703-305-1791. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on 703-308-2816. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

DM August 29, 2002

> RICHARD ELMS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800